

IN THE CLAIMS:

Please substitute the following listing of claims for the previous listing of claims:

1. (Previously presented) An aerosol drug delivery system comprising:
a container adapted to contain a drug formulation;
an aerosol generator for aerosolizing the drug formulation in response to manual actuation; and
an electromechanical lockout device having an inactive state which prevents manual actuation of the aerosol generator thereby preventing aerosolization of the drug formulation and which has an active state which permits manual actuation of the aerosol generator thereby permitting aerosolization of the drug formulation only when an electric current is being supplied to place the electromechanical lockout device in the active state, wherein said inactive state requires no electrical current.
2. (Previously presented) A system as in claim 1, wherein the lockout device comprises a lockout element that is positioned in a dose preventing position when in the inactive state, and is movable to a dosing permitting position when electric current is supplied to place the lockout device in the activated state.
3. (Original) A system as in claim 2, wherein the lockout device further comprises circuitry for supplying electrical current to move the lockout element to the dose permitting position when the lockout device is in the activated state.
4. (Original) A system as in claim 2, wherein the lockout device further comprises a controller having an associated memory for storing a dosing condition, and wherein the controller is configured to send a signal to place the lockout device in the activated state only after the dosing condition has been satisfied.

5. (Original) A system as in claim 2, wherein the container comprises a canister, and wherein the aerosol generator comprises a metering valve and an actuator operably coupled to the canister.

6. (Original) A system as in claim 5, further comprising a housing, wherein the canister is reciprocally held within at least a portion of the housing between a home position and a dosing position where the actuator is engaged to open the metering valve and to permit the escape of a metered amount of the drug formulation from the canister.

7. (Original) A system as in claim 6, wherein the lockout element is positioned to prevent engagement of the actuator when in the dose preventing position to thereby prevent opening of the metering valve.

8. (Original) A system as in claim 7, wherein the lockout element has a distal end that is engageable with the canister to prevent substantial displacement of the canister into the housing when the lockout element is in the dose preventing position.

9. (Original) A system as in claim 8, wherein upon placement of the preventing device into the activated state, the distal end of the lockout element is retracted to permit displacement of the canister into the housing and to permit engagement of the actuator to open the metering valve.

10. (Original) A system as in claim 7, wherein the canister is movable within the housing when the preventing device is in the inactive state, and further comprising a stop that is reciprocally disposed within the housing below the actuator, and wherein the lockout element has a distal end that is engageable with the stop when in the activated state to prevent movement of the stop within the housing such that displacement of the canister engages the actuator with the stop to permit dispensing of the metered drug formulation when the preventing device is in the activated state.

11. (Original) A system as in claim 1, further comprising a high pressure gas source to assist in aerosolizing the drug formulation when the preventing device is in the activated state.

12. (Original) A system as in claim 1, further comprising a dose counter disposed to count the number of doses of the drug formulation dispensed from the container.

13. (Original) A system as in claim 12, wherein the container is reciprocatably disposed within a housing, and wherein the dose counter comprises a dose counting circuit positioned to sense when the container has been reciprocated within the housing.

14. (Original) A system as in claim 13, wherein the dose counter further comprises a display for indicating if the container contains an amount of drug formulation.

15. (Previously presented) A system as in claim 5, further comprising a nozzle operably coupled to the canister, and wherein the housing further includes a mouthpiece disposed to receive the drug formulation from the nozzle.

16. (Original) A system as in claim 15, wherein the mouthpiece has a first end and a second end, and wherein the nozzle is positionable within an opening adjacent the first end of the mouthpiece to permit the aerosolized drug formulation to be delivered to a patient upon inhalation through the second end of the mouthpiece.

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17. (Currently amended) A method of aerosolizing a drug formulation, the method comprising:

- providing a drug delivery system comprising a container having an amount of a drug formulation that is aerosolized in response to manual actuation, and an electromechanical lockout device;
- configuring the electromechanical lockout device to provide an inactive state wherein manual actuation of the aerosolization of the container is prevented; and
- supplying electrical current to the lockout device to place the lockout device in an active state, thereby permitting the manual actuation of the aerosolization of the drug formulation only when the electrical current is being supplied to place the lockout device in the active state.

18. (Previously presented) A method as in claim 17, wherein the electromechanical lockout device comprises a lockout element that is positioned in a dose preventing position when in the inactive state, and further comprising moving the lockout element to a dosing permitting position when electric current is supplied to place the lockout device in the activated state.

19. (Original) A method as in claim 18, wherein the container comprises a canister having a metering valve and an actuator, wherein the canister is reciprocatably held within a housing between a home position and a dosing position, and further comprising depressing the canister into the housing to the dosing position to engage the actuator and to release a metered amount of the drug formulation when the lockout device is in the active state.

20. (Original) A method as in claim 19, further comprising preventing engagement of the actuator when the lockout element is in the dose preventing position.

21. (Original) A method as in claim 20, further comprising engaging the canister with the lockout element to prevent movement of the canister to the dispensing position when the lockout element is in the dose preventing position.

22. (Original) A method as in claim 21, further comprising disengaging the lockout element from the canister to permit movement of the canister to the dispensing position upon supply of the electrical current.

23. (Original) A method as in claim 20, further comprising engaging the lockout element with a stop that is positioned below the actuator upon supply of the electrical current, and further comprising depressing the canister into the housing to engage the actuator with the stop.

24. (Previously presented) A method as in claim 18, further comprising stopping the supply of the electric current to the lockout device after the drug formulation has been aerosolized .

25. (Previously presented) A method as in claim 24, further comprising supplying electric current to the lockout device to permit another dosing only after a certain dosing condition has been satisfied.

26. (Previously presented) A method as in claim 25, further comprising counting the number doses aerosolized from the container.

27. (Previously presented) A method as in claim 26, further comprising displaying whether the container contains an amount of drug formulation based on the number of aerosolizations.

28-36. (Cancelled)